

IOP Conference Series: Earth and Environmental Science 2016 vol.33 N1

Landslide hazard assessment in city under construction Innopolis (Russia)

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Abstract

© Published under licence by IOP Publishing Ltd. The paper reflects the main results of exploring the landslide hazard threatening Innopolis city, precisely field and laboratory studies, assessment of the slope stability. A regional short-term landslide hazard forecast was performed using a digital model of geological medium and the method of engineering-geological analogy: an engineering-geological zoning was conducted; data from standard areas, the critical values of surface slopes were calculated for the identified types of soils and different types of humidity; the obtained data were extrapolated, verified and corrected. On the basis of the forecast, development of a landslide monitoring network is proved.

<http://dx.doi.org/10.1088/1755-1315/33/1/012042>
